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Proposed Maximum Residue Limit PMRL2010-64

# Spirotetramat

*(publié aussi en français)*

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Under the authority of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) has concluded that the addition of new uses on legume vegetables (Crop Group 6) to the product label of Movento 240 SC Insecticide, containing technical grade spirotetramat, is acceptable. The specific uses approved in Canada are detailed on the label of Movento 240 SC Insecticide, *Pest Control Products Act* Registration Number 28953.

The evaluation of this spirotetramat application indicated that the end-use product has merit and value and the human health and environmental risks associated with the new uses are acceptable. Details regarding the registration can be found in the corresponding Evaluation Report available in the Pesticides and Pest Management section of Health Canada's website, under Public Registry, Pesticide Product Information Database.[1]

Before registering a pesticide for food use in Canada, the PMRA must determine the quantity of residues that are likely to remain in or on the food when the pesticide is used according to label directions and that such residues will not be a concern to human health. This quantity is then legally established as a maximum residue limit (MRL). An MRL applies to the identified raw agricultural food commodity as well as to any processed food product that contains it, except where separate MRLs are specified for the raw agricultural commodity and a processed product made from it.

In addition, the PMRA is proposing to establish import MRLs for spirotetramat on cotton and certain tropical fruits to permit the import and sale of food containing such residues. The PMRA has determined the quantity of residues that are likely to remain in or on the imported commodities when spirotetramat is used according to label directions in the exporting country and that such residues will not be a concern to human health.

Consultation on the proposed MRLs for spirotetramat is being conducted via this document (see Next Steps, the last section of this document).

To comply with Canada's international trade obligations, consultation on the proposed MRLs is also being conducted internationally by notifying the World Trade Organization, as coordinated by the Standards Council of Canada.

The proposed MRLs for spirotetramat in Canada in or on food, to be added to the MRLs already legally established, are as follows.

[1] The relevant report can be accessed by selecting the Applications/Amendment/Historical and opening the Evaluation Report found under Application Number 2009-0585 or 2009-0586.

**Table 1 Proposed Maximum Residue Limits for Spirotetramat**

| Common Name | Residue Definition | MRL (ppm) | Food Commodity |
|---|---|---|---|
| Spirotetramat | BYI08330:<br>*cis*-3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl carbonate,<br><br>including the metabolites<br><br>BYI08330-enol:<br>*cis*-3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one<br><br>BYI08830-ketohydroxy:<br>*cis*-3-(2,5-dimethylphenyl)-3-hydroxy-8-methoxy-1-azaspiro[4.5]decane-2,4-dione<br><br>BYI08330-enol-Glc:<br>*cis*-3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl beta-D-glucopyranoside<br><br>BYI08330-monohydroxy:<br>*cis*-3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]decan-2-one<br><br>and<br><br>BYI08330-enol-GA:<br>*cis*-3-(2,5-dimethylphenyl)-4-(β-D-glucopyranosyloxy)-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one | 13<br><br>5.0<br>2.5<br><br>0.6<br><br>0.35<br>0.3<br><br>0.2 | Longans, lychees, pulasans, rambutans, Spanish limes<br>Dry soybeans<br>Legume vegetables (Crop Group 6), acerolas, feijoas, guavas, jaboticabas, passion fruit, star fruit, wax jambus<br>Avocados, black sapotes, canistels, mamey sapotes, sapodillas, star apples<br>Papayas<br>Mangoes, undelinted cotton seeds<br>Kiwifruit |

MRLs are proposed for each commodity included in the legume vegetable crop group in accordance with Appendix I.

A complete list of all MRLs established in Canada can be found on the Maximum Residue Limits for Pesticides webpage in the Pesticides and Pest Management section of Health Canada's website.

## International Situation and Trade Implications

American tolerances have not been established for spirotetramat on the commodities included in the proposed MRL action, with the exception of kiwifruit as captured in Table 2 below. American tolerances are listed in the Electronic Code of Federal Regulations, 40 CFR Part 180, by pesticide. Currently, Codex Alimentarius MRLs[2] have not been established for spirotetramat on any commodity. A listing of all established Codex MRLs is available on the Codex Alimentarius Pesticide Residues in Food website.

**Table 2 Comparison of Canadian MRL and American Tolerance for Kiwifruit**

| Food Commodity | Canadian MRL (ppm) | American Tolerance (ppm) |
|---|---|---|
| Kiwifruit | 0.2 | 1.3* (Hardy kiwifruit) |

* Established for "Small fruit vine climbing subgroup, except fuzzy kiwifruit, subgroup 13-07F" which includes hardy kiwifruit

## Next Steps

The PMRA invites the public to submit written comments on the proposed MRLs for spirotetramat up to 75 days from the date of publication of this document. Please forward your comments to Publications (see the contact information on the cover page of this document). The PMRA will consider all comments received before making a final decision on the proposed MRLs for spirotetramat and posting a corresponding Established Maximum Residue Limit document in the Pesticides and Pest Management section of Health Canada's website.

[2] The Codex Alimentarius Commission is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.

## Appendix I

### Crop Groups: Numbers and Definitions

| Crop Group | | Food Commodities Included in the Crop Group |
|---|---|---|
| Number | Name | |
| 6 | Legume vegetables (succulent or dried) | Dry adzuki beans<br>Dry beans<br>Dry blackeyed peas<br>Dry broad beans<br>Dry catjang seeds<br>Dry chickpeas<br>Dry cowpea seeds<br>Dry field peas<br>Dry guar seeds<br>Dry kidney beans<br>Dry lablab beans<br>Dry lentils<br>Dry lima beans<br>Dry moth beans<br>Dry mung beans<br>Dry navy beans<br>Dry pigeon peas<br>Dry pink beans<br>Dry pinto beans<br>Dry rice beans<br>Dry southern peas<br>Dry soybeans<br>Dry tepary beans<br>Dry urd beans<br>Edible-podded soybeans<br>Edible-podded dwarf peas<br>Edible-podded jackbeans<br>Edible-podded moth beans<br>Edible-podded peas<br>Edible-podded pigeon peas<br>Edible-podded runner beans<br>Edible-podded snap beans<br>Edible-podded snow peas<br>Edible-podded sugar snap peas<br>Edible-podded sword beans<br>Edible-podded wax beans<br>Edible-podded yardlong beans<br>Grain lupin<br>Succulent shelled blackeyed peas |

| Crop Group | | Food Commodities Included in the Crop Group |
|---|---|---|
| Number | Name | |
| | | Succulent shelled broad beans<br>Succulent shelled cowpeas<br>Succulent shelled English peas<br>Succulent shelled garden peas<br>Succulent shelled green peas<br>Succulent shelled lima beans<br>Succulent shelled peas<br>Succulent shelled pigeon peas<br>Succulent shelled southern peas |